

Date: September 22, 2009

Title: Direct Variation Part 2



Objective: Practice using graphing calculators with direct variation.

IN: Mrs. Bashford has a freakishly large van. Because of her love of cows, she decided to see how many she could take for a ride. She put two on top and one inside. Create an equation and show how many trips it would take to move 48 cows.

PRACTICE SETTING UP PROPORTIONS

A grocery store advertises 3 gallons of fresh milk for \$7.50.

- a) Write a rate for the cost of one gallon of milk.
- b) Write an equation showing the relationship between the number of gallons of milk purchased and the cost.
- c) How much will 15 gallons of milk cost?
- d) If you spend \$1,500, how many gallons did you buy?

APPLICATION TIME!

The equation $c=1.25f$ shows the direct variation relationship between the length of fabric and its cost. The variable f represents the length of the fabric in yards, and c represents the cost in dollars. Use the equation to answer these questions.

- a) How much does 2.5 yards of fabric cost?
- b) How much fabric can you buy for \$5.00?
- c) What is the cost of each additional yard of fabric?



APPLICATION TIME CONTINUED!

Market Cow Spot sells 7 ears of corn for \$1.25. Market Cow Pie sells a baker's dozen (13) for \$2.75.

- a) Copy and complete the tables below showing the cost of corn at each market.

Market Cow Spot

Ears	7	14	21	28	35	42
Cost						

Market Cow Pie

Ears	13	26	39	52	65	78
Cost						

👁️👁️👁️: If chocolate granola bars are 4 for \$2 and cinnamon granola bars are 7 for \$3.50, which is the better deal?

Summary:

Explain how you can use rates when you shop for phones.

Homework:

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